COEN-352 Tutorial #1

INTRO

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Familiar with: **C++, JAVA, Python, and MATLAB**

What are some topics in **Data Structures & Algorithms?**

COEN-352 Overview

Data Structures:

- **DS**s are means of storing data in a pattern-like format favourable in an application.

- These often dictate which algorithms to use and are based on the data we have.

- **Examples:** Arrays, Linked Lists, Stacks, Queues, Trees, Graphs…

Algorithms:

- **ALGO**s are methods developed for executing some actions on data.

- Algorithms usually depend on the DS and the type of data given.

- **Examples:** Sorting, Searching, Inserting, deletion…

JAVA Development Environment Setup

GitHub Repo: https://github.com/TheBarzani/COEN352_W2023

Steps:

1. Download and Install Java compiler
2. Add Java to the PATH
3. Set up an IDE for JDK
4. Create first project and "Hello World" program
5. Explore unit testing

THANK YOU